

# **Nuclear Material Stabilization and Disposition (RL-0011)**

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*Completed draining  
concentrated nitric acid  
header*



*Continued leak test of 9975  
containers*

## Overview

This section addresses work in Project Baseline Summary RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2008.

## Notable Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

- Continued activities in support of 3013 de-inventory.
  - Completed prompt gamma measurements on 3013 containers.
  - Continued annual maintenance and leak tests of 9975 containers.
    - Completed annual maintenance and leak tests of 202 containers in March, bringing the total complete to 1,118.
  - Continued support for the procurement of 9975 shipping containers.
- Continued disposition of the Hanford Unirradiated Fuel Package (HUFP) Safety Analysis Report for Packaging (SARP) comments.
  - Eight comment dispositions are with the Package Certification Authority (PCA) to review.
  - Eighteen comments will be addressed upon completion of the Finite Element Analysis (FEA).
  - Received approval from DOE on procurement of the long lead material for the HUFP in advance of the issuance of the Certificate of Compliance (CoC).
- Issued the Request for Proposal (RFP) for the procurement of the HUFP long lead material to prospective bidders.
- DOE Savannah River agreed to review the documentation on the Interim Storage Vaults (ISVs) for storage of the fuel at Savannah River instead of the HUFP containers to determine if ISVs are viable option.
- Completed clean out of the fourth level of HA-23S glovebox in 234-5Z building.
- Completed draining concentrated nitric acid header and the drop legs in room 264 (234-5Z building) of the duct level as part of lay-up activities.

## FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
Nuclear Materials Stabilization and Disposition	\$ 89.3	\$ 91.0	\$ -1.7

## Schedule/Cost Performance (\$M)

Nuclear Materials Stabilization & Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08/CTD)
Current Period (Month)	\$6.5	\$6.6	\$4.7	\$0.2	2.5%	\$1.9	28.9%	\$103.3
Cumulative to Date (FY 2004 - Present)	\$623.7	\$625.2	\$585.2	\$1.5	0.2%	\$40.0	6.4%	\$687.3

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

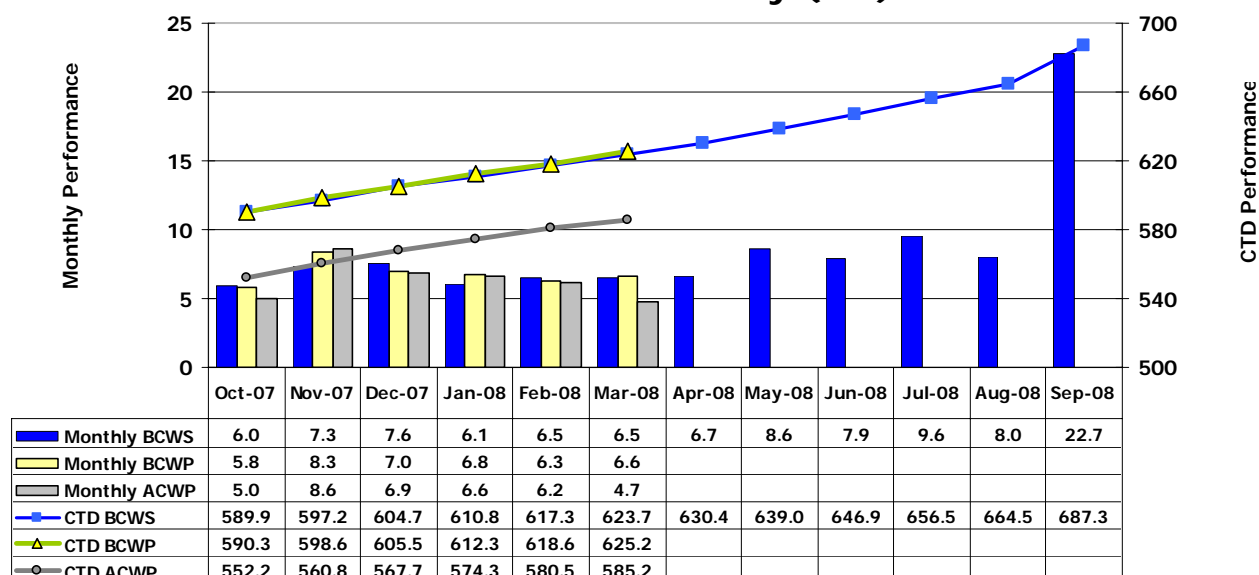
**CTD Schedule Performance: (+\$1.5M/+0.2%):** The positive schedule variance is primarily the result of:

- Accelerated progress on glovebox cleanout in 234-5Z and associated apportioned support activities, partially offset by delays in FY 2008 lay-up activities (acid line draining).

**CTD Cost Performance: (+\$40.0M/+6.4%):** The positive cost variance is due to:

- A concerted effort to extend maintenance frequencies, efficient roof repair, early completion of MICON recabling under cost, partially offset by recent increased maintenance activities associated with aging facility systems and components.
- Early completion of Special Nuclear Material (SNM) Stabilization.
- Efficiencies in miscellaneous materials disposition work, reduced resource requirements for prior year SNM De-inventory activities, and SNM Disposition planning, partially offset by increased costs for planned disposition of unirradiated fuels.
- Favorable Solid Waste disposition rates, efficiencies in glovebox planning and cleanout in 234-5Z, 241-Z cell stabilization, and associated apportioned support activities.
- Reduced overhead costs/allocations to the PFP Project.

## Performance Analysis CTD and Monthly (\$M)



## Milestone Achievement

*Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone and Performance Incentives (PIs) information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of BCRs approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
TRP-08-004	Removal Action Work Plan for the 216-Z-9 Crib Complex Submitted to DOE	PI	9/30/2008		4/25/2008	Ahead of Schedule
TRP-08-005	Implement the Necessary Lay-up Activities to Place PFP in a Safe Configuration Until D&D Resumes	PI	9/30/2008	12/6/2007		Complete
TRP-08-006	Internal cleanout of up to 9 additional contaminated gloveboxes and glovebox HA-23	PI	9/30/2008		5/14/2008	Ahead of Schedule
TRP-08-025	Complete 216-Z-9 Facility Condition Analysis by 30 September 2008	PI	9/30/2008	12/6/2007		Complete
TRP-08-027	Complete internal cleanout of one 234-5Z glovebox/conveyer	PI	9/30/2008	11/13/2007		Complete
TRP-11-502	Complete Closure of the PFP 241-Z TSD Unit	PI	9/30/2011	2/22/2007		Complete
TRP-11-503	Complete Transition and Dismantlement of 241-Z Waste Treatment Facility	PI	9/30/2011	6/8/2007		Complete